

TOWN OF HUNTINGTON

STORM WATER POLLUTION PREVENTION

- MINIMUM CONTROL MEASURE 6 -

POLLUTION PREVENTION/GOOD HOUSEKEEPING
FOR MUNICIPAL OPERATIONS

MUNICIPAL EMPLOYEE TRAINING PRESENTATION

It all starts with Storm Water Runoff:

Stormwater flows from rooftops, over paved areas, bare soil and lawns - it picks up litter, sediment, pesticides, fertilizers, chemicals from automobiles, bacteria from animal waste and other pollutants.



Benefits of Storm Water Management:

- Protect drinking water supplies & recreational waterways,
- Reduce negative impacts to aquatic resources,
- Enhance property values,
- Improve quality of life,
- Infrastructure protection, and
- Savings from property/material loss prevention.



New York State Pollutant Discharge Elimination System (SPDES)

General Stormwater Permits:

GP-0-10-002: SPDES General Permit (GP) for Stormwater Discharges from **Municipal Separate Storm Sewer Systems (MS4s)**.

Regulates MS4s located in “urbanized areas”.

GP-0-10-001: SPDES General Permit (GP) for Stormwater Discharges from Construction Activity.

Regulates Construction Activities that disturb 1 acre or more of land.

MS4 Storm Water Permit GP-0-10-002

MS4 Definition: A storm water conveyance or system of storm water conveyances owned by a State, City, Town, Village, or other public entity that discharges to the Waters of the United States and is:

- Designed or used to collect or convey stormwater (includes gutters, pipes and ditches)
- Not a combined sewer (i.e., a system that conveys both storm water and sanitary wastewater.
- Not part of a Publicly Owned Treatment Works (i.e., a waste water treatment plant)

MS4 Program Requirements

- Addresses the 6 Minimum Control Measures (MCM),
- Lists approved Best Management Practices (BMPs),
- Sets measurable goals for each Minimum Control Measure,
- Provides for annual reporting (Annual Report and Municipal Compliance Certification due June 1 of each year),
- Covers the area draining to MS4 or “Waters of the United States” (*surface waters*), and
- Is developed, implemented and enforced to reduce storm water pollutants to Maximum Extent Practicable (MEP).

WHY ARE WE HERE?

The Town of Huntington is required to participate in the New York State Department of Environmental Conservation's MS4 Program.

- SWMP – Storm Water Management Program
 - Addresses each of the 6 **Minimum Control Measures**:

MCM 1 - Public Education & Outreach

MCM 2 - Public Participation & Involvement

MCM 3 - Illicit Discharge Detection & Elimination

MCM 4 - Construction Site Runoff Control

MCM 5 - Post-Construction Storm Water Management

MCM 6 - Pollution Prevention/Good Housekeeping for Municipal Operations

MCM 6 - REQUIREMENTS

- Develop and implement an Operations & Maintenance (O&M) Program.
 - Includes training of municipal employees, and
 - Goal of preventing or reducing pollutant runoff from municipal operations.
- Include training to prevent or reduce pollution that might result from:
 - Park and Open Space Operations & Maintenance,
 - Fleet and Building Operations & Maintenance,
 - New Construction and other types of Land Disturbance,
 - Storm Water Conveyance System Operations & Maintenance, and
 - Municipal Facility Operations.

TRAINING AS REQUIRED BY THE PERMIT

Annual Employee Training – implemented to eliminate/reduce storm water pollution.

Best Management Practices (BMPs) categories:

- Good Housekeeping and Spill Prevention,
- Vehicle/Equipment Washing,
- Vehicle/Equipment Maintenance,
- Spill/Uncontrolled Release Reporting and Response,
- Street Maintenance (including Storm Sewers Systems),
- Indoor/Outdoor storage of Supplies, Materials and Waste Materials, and
- Landscaping and Lawn Care.

VIDEO:

“STORM WATER POLLUTION PREVENTION”

2/23/2016

FACILITIES LISTING

Dix Hills Water District: 683 Caledonia Rd. (Maint./Storage/Water Treatment Facility)

Env. Waste Mgmt.: 1 Boxer Ct. (Maint./Storage Facility)

641 New York Ave. (HHHWRC)

General Services: 1 Boxer Ct. (Maint./Storage Facility)

183 E. Pulaski Rd. (Maint./Storage Facility)

220 Waterside Ave. (Northport) Crab Meadow GC WTF

220 Waterside Ave. (Northport) Crab Meadow GC Maint./Storage Facility

575 Vanderbilt Pkwy. (Dix Hills) Dix Hills Recreation Pool WTF

575 Vanderbilt Pkwy. (Dix Hills) Dix Hills GC Maint./Storage Facility

FACILITIES LISTING (CONTINUED)

Hart Bus Service:

144 E. 2nd St. (Maint./Storage Facility)

Highway Department:

2nd Ave. (E. Northport) (Maint./Storage/Salt Barn)

30 Rofay Dr. (Elwood) (Maint./Storage/Salt Barn)

110 Oakwood Rd. (Huntington) (Maint./Storage/Salt Barn)

Old East Neck Rd. (Melville) (Salt Barn)

Gates St./Taylor Ave. (Greenlawn) (Salt Barn)

Maritime Services:

Crab Meadow Beach (Maint./Storage Facility)

53 N. New York Ave. (Halesite) (Maint./Storage Facility)

FACILITY-SPECIFIC INFORMATION

Facility Name -

Facility Address -

Is a Storm Water Pollution Prevention and Spill Response Plan (SWPPSRP) in place and current at your Facility? Yes / No

Type(s) of Vehicle/Equipment Fuel stored at your Facility -

Tank/Storage Capacity/Capacities of Vehicle/Equipment Fuel stored at your Facility -

Number of Vehicle Fueling Pumps at your Facility -

Number of Vehicle/Equipment Service Bays at your Facility -

Does Vehicle/Equipment Washdown occur at your Facility? Yes / No

If "Yes", describe the disposal pathway of the wastewater resulting from washdown activities at your Facility -

Number of "Flammables" Storage Cabinets at your Facility -

Number of "Pesticides" Storage Cabinets at your Facility -

Number of Hazardous Waste Storage (i.e., HazStor) units at your Facility -

Size of HazStor unit(s) at your Facility -

Description of Fire Suppression System(s) installed in HazStor unit(s) at your Facility -

Inspection of HazStor Fire Suppression System(s) at your Facility is performed by -

Number of "Pesticides" Storage Units at your Facility -

Size of "Pesticides" Storage Units at your Facility -

Number of Waste Petroleum Product Storage Tanks located at your Facility -

Capacity/Capacities of Waste Petroleum Product Storage Tank(s) located at your Facility -

Number of Waste Anti-Freeze Storage Tanks located at your Facility -

Capacity/Capacities of Waste Anti-Freeze Storage Tank(s) located at your Facility -

Number of indoor Secondary-Containment Pallets/Platforms located at your Facility -

Capacity/Capacities of indoor Secondary-Containment Pallets/Platform(s) located at your Facility -

Types of Hazardous Chemicals stored at your Facility -

Amounts of Hazardous Chemicals stored at your Facility -

Types of Petroleum-based Lubricants stored at your Facility -

Amounts of Petroleum-based Lubricants stored at your Facility -

FACILITY-SPECIFIC: CRAB MEADOW BEACH (MAINT./STORAGE FACILITY)

Is a Storm Water Pollution Prevention and Spill Response Plan (SWPPSRP) in place and current at your Facility? Yes / No

Type(s) of Vehicle/Equipment Fuel stored at your Facility - N/A

Tank/Storage Capacity/Capacities of Vehicle/Equipment Fuel stored at your Facility - N/A

Number of Vehicle Fueling Pumps at your Facility - N/A

Number of Vehicle/Equipment Service Bays at your Facility - 1

Does Vehicle/Equipment Washdown occur at your Facility? Yes / No

If "Yes", describe the disposal pathway of the wastewater resulting from washdown activities at your Facility - N/A

Number of "Flammables" Storage Cabinets at your Facility - 2

Number of "Pesticides" Storage Cabinets at your Facility - 2

Number of Hazardous Waste Storage (i.e., HazStor) units at your Facility - N/A

Size of HazStor unit(s) at your Facility - N/A

Description of Fire Suppression System(s) installed in HazStor unit(s) at your Facility - N/A

Inspection of HazStor Fire Suppression System(s) at your Facility is performed by - N/A

Number of "Pesticides" Storage Units at your Facility - N/A

Size of "Pesticides" Storage Units at your Facility - N/A

Number of Waste Petroleum Product Storage Tanks located at your Facility - N/A

Capacity/Capacities of Waste Petroleum Product Storage Tank(s) located at your Facility - N/A

Number of Waste Anti-Freeze Storage Tanks located at your Facility - N/A

Capacity/Capacities of Waste Anti-Freeze Storage Tank(s) located at your Facility - N/A

Number of indoor Secondary-Containment Pallets/Platforms located at your Facility - 1

Capacity/Capacities of indoor Secondary-Containment Pallets/Platform(s) located at your Facility - 40 gal.

Types of Hazardous Chemicals stored at your Facility - Solvents

Amounts of Hazardous Chemicals stored at your Facility - ~ 15 gal.

Types of Petroleum-based Lubricants stored at your Facility - Gear Oil, Motor Oil, 2-Stroke Oil

Amounts of Petroleum-based Lubricants stored at your Facility - ~ 30 gal.

DISCUSSION -

Materials that can cause pollution if released in an uncontrolled manner:

- Anti-freeze
- Fuel
- Hazardous Chemicals (Acids, Bases, Solvents, ...)
- Herbicides
- Paint (Oil-based, Anti-Fouling, ...)
- Pesticides
- Petroleum-based Lubricants
- Salt
- Sand/Soil/Aggregates

- Does your Facility have Spill Response Kits available?
 - Location(s)?
 - Contents?
- Activities most likely to result in an accidental spill or release:
 - Fueling of vehicles/equipment,
 - Performing Lubricating Oil changes on vehicles/equipment, and
 - Improper storage of Hazardous Chemicals/Pesticides/Herbicides.
- Are the outdoor Dumpsters/Waste Bins at your Facility maintained with lids closed when not in use?
- If vehicle/equipment washing or washdown occurs at your Facility, is the wastewater stream ultimately treated and disposed of at a Waste Water Treatment Facility?

2/23/2016

General housekeeping?

MCM#6 - GOOD HOUSEKEEPING

Keep work areas neat and orderly:

- Don't let scrap accumulate,
- Sweep up regularly, and
- Clean up drips & spills promptly.

Keep unused containers tightly closed:

- Maintain lids on containers unless they are in use, and
- Make sure all fuel/lubricant/chemical containers are labeled correctly.

VEHICLE & EQUIPMENT MAINTENANCE

- Stay with vehicle during fueling activities,
- Move any leaking vehicles/equipment indoors and use drip pans as needed,
- Employ drip pans when leaking vehicles/equipment cannot be moved indoors immediately,

AND

- Perform vehicle/equipment maintenance indoors if at all possible.

VEHICLE/EQUIPMENT WASHING

Option 1) Wash vehicles/equipment at a commercial facility.

Option 2) Wash vehicles/equipment indoors: The wash water waste stream must ultimately go to a sanitary sewer for treatment and disposal.

Option 3) When commercial or inside facilities are not available – wash vehicles/equipment on an impervious surface where the wash water waste stream ultimately goes to a sanitary sewer for treatment and disposal: The designated wash area should be roofed and storm water kept off of wash pad in order to reduce the volume of the wash water waste stream liquids requiring treatment and disposal.

SPILL REPORTING & RESPONSE

NEVER hose down or wash down a spill or uncontrolled release!

- That's strictly prohibited!

Clean up spills of non-toxic liquids and materials quickly before they get away.

- Do a thorough job, leave no residue behind.

Protect storm drains and catch basins from spills.

- Place pigs or absorbents between the spill/uncontrolled release and the storm drain.

Dispose of clean-up waste properly.

- Recycle the resulting materials or send the materials to appropriate landfill facility.

STREET MAINTENANCE

- Debris and waste material resulting from street sweeping and catch basin cleaning must ultimately go to a sanitary landfill.
- Any waste water leaching from this debris/material must go to a sanitary sewer system for treatment and disposal at a waste water treatment plant.
- Install and maintain devices designed to protect storm drain inlets from pollutant entry during street maintenance and/or construction.

LANDSCAPING & LAWN CARE

- Ensure that employees obtain proper training and licensing prior to pesticide application,
- Apply pesticides strictly according to the manufacturer's label/instructions,
- Apply pesticides/herbicides/fertilizer only on “as-needed” basis,
- Ensure that a “buffer zone” is maintained next to open water (ponds & streams) as labeled,

AND

- Compost or otherwise properly dispose of vegetation clippings and yard waste.

ILLICIT DISCHARGE DETECTION AND ELIMINATION

Be alert to illicit discharges to the Storm Sewer System or the environment:

- Discolored or inappropriate pipe discharges.
- Bad-smelling discharges.
- Potential for soil erosion to the storm system.

Report illicit discharges to your supervisory staff so that the conditions may be addressed and remedied.

FACILITY-SPECIFIC: STORMWATER POLLUTION PREVENTION AND SPILL RESPONSE PLAN (SWPPSRP)

Cover Page Text:

“Federal and State Phase II storm water regulations require municipal facilities to implement an operation and maintenance program that includes an employee training component and has the ultimate goal of preventing or reducing pollutant runoff from municipal operations. Preventing spills of materials and wastes is a significant component of complying with these regulations. However, even with the best prevention efforts, spills may still occur. When they do, it is up to facility personnel to respond quickly and effectively to clean up the spilled material or notify someone who can. This site-specific Spill Response Plan should be kept in a central location that is easily accessible for employees. This site-specific Spill Response Plan should be reviewed and updated as necessary at least annually.”

SWPPSRP – TABLE OF CONTENTS

- I. Responsibilities
- II. Emergency Contact Numbers
- III. Clean-Up Procedures
 - 1. *Evacuation*
 - 2. *Spill Control*
 - 3. *Spill Response and Clean-up*
- IV. Reporting Spills
- V. Material Inventory
- VI. Maximum Clean-up Amounts
- VII. Facility Map
- VIII. Spill Kit Inventory
- IX. Spill Kit Locker/Container Labeling
- X. Employee Training Log

SWPPSRP SECTION I. - RESPONSIBILITIES

Text:

- “The Facility Responsible Person has primary responsibility for coordinating the response to emergencies, including uncontrolled releases/spills.”
- “Supervisors should ensure that employees are familiar with these procedures and receive any necessary training.”
- “All employees should follow these procedures in the event of an uncontrolled release/spill.”

SWPPSRP SECTION II. – EMERGENCY CONTACT NUMBERS

Text:

“The following telephone numbers should be posted near telephones and in other conspicuous locations:

- Outside emergency services (police, fire department, ambulance service): 911
- Facility Responsible Person: _____ Phone #: _____
- NYS Department of Environmental Conservation (NYSDEC): 1-800-457-7362
- US Environmental Protection Agency (EPA) Region 2: 1-877-251-4575
- National Response Center: 1-800-424-8802”

SWPPSRP SECTION III. – CLEAN-UP PROCEDURES

First Paragraph Text:

“Spilled chemicals should be effectively and quickly contained and cleaned up. Employees should clean up spills themselves *only if properly trained and protected*. Employees who are not trained in spill cleanup procedures should report the spill to the Responsible Person(s) listed above, warn other employees, and leave the area.”

SWPPSRP SECTION III. – CLEAN-UP PROCEDURES

1. EVACUATION

Text:

“Persons in the immediate vicinity of a spill should *immediately evacuate* the premises (except for employees with training in spill response in circumstances described below). If the spill is of “medium” or “large” size, or if the spill seems hazardous, immediately notify emergency response personnel.”

SWPPSRP SECTION III. – CLEAN-UP PROCEDURES

2. SPILL CONTROL

First Paragraph Text:

“Once a spill has occurred, the employee needs to decide whether the spill is small enough to handle without outside assistance. Only employees with training in spill response should attempt to contain or clean up a spill.”

Second Paragraph Text:

“**NOTE:** If you are cleaning up a spill yourself, make sure you are aware of the hazards associated with the materials spilled, have adequate ventilation, and proper personal protective equipment. Treat all residual chemical and cleanup materials as hazardous waste.”

SWPPSRP SECTION III. – CLEAN-UP PROCEDURES

3. SPILL RESPONSE AND CLEAN-UP

Chemical spills are divided into three categories: Small, Medium and Large. Response and cleanup procedures vary depending on the size of the spill.

Small Spills: Any spill where the major dimension is less than 18 inches in diameter. Small spills are generally handled by internal personnel and usually do not require an emergency response by police or fire department HAZMAT teams.

Medium Spills: Spills where the major dimension exceeds 18 inches, but is less than 6 feet. Outside emergency response personnel (police and fire department HAZMAT teams) should usually be called for medium spills. Common sense, however, will dictate when it is necessary to call them.

Large Spills: Any spill involving flammable liquid where the major dimension exceeds 6 feet in diameter; and any “running” spill, where the source of the spill has not been contained or flow has not been stopped.

SWPPSRP SECTION IV. – REPORTING SPILLS

Text:

“All chemical spills, regardless of size, should be reported as soon as possible to the Facility Responsible Person. The Facility Responsible Person will determine whether the spill has the potential to affect the environment outside of the facility and must be reported to 911 or the National Response Center at 800-424-8802. Examples of spills that could affect the outside environment include spills that are accompanied by fire or explosion and spills that could reach nearby water bodies.”

SWPPSRP SECTION V. – MATERIAL INVENTORY SPILLS

Text:

“List all materials or wastes that may require clean up. List the average and maximum amounts on site and their storage locations. *(Example materials are listed for convenience only. Ignore any that do not apply and add any other materials of concern that are onsite. Use additional sheets if necessary.)*”

Table categories:

Material(s)
Antifreeze
Degreasing Agents
Diesel Fuel
Fertilizer
Gasoline
Herbicides
Magnesium Chloride
Oil, Motor
Oil, Hydraulic
Oil, Waste/Used
Paints/Stains
Pesticides
Solvents
Other (fill in below)

SWPPSRP SECTION VI. – MAXIMUM CLEAN-UP AMOUNTS

Text:

“Identify the maximum volume of spill that may be cleaned up by facility employees based on material (use gallon or lb. units unless other information is available.). Identify how wastes from a spill of any material will be disposed (for example, absorbed and placed in dumpster) and the name and address of the offsite facility to which clean-up wastes will be sent for hazardous waste disposal, if applicable:”

Table Categories:

<u>Material</u>	<u>Maximum Volume to be cleaned</u>	<u>Disposal Method/Location</u>
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SWPPSRP SECTION VII. – FACILITY MAP

Text:

“Attach a map or sketch of the facility showing (a) the locations of each spill response kit, (b) the locations where the materials identified on page 6 are normally stored or used, and (c) the location of each storm drain inlet or drainage ditch.”

SWPPSRP SECTION VIII. – SPILL KIT INVENTORY

Text:

“List the spill response equipment that will be maintained in each locker/container (refer to MSDS’s to determine recommended clean-up methods and supplies):”

<u>Locker/Container Location</u>	<u>Absorbents</u>	<u>Tools</u>	<u>Personal Protective Equipment</u>	<u>Other Supplies</u>
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SWPPSRP SECTION IX. – SPILL KIT LOCKER/CONTAINER LABELING

Text:

“Label each spill kit locker/container prominently with the words “SPILL KIT” or “SPILL RESPONSE KIT”.”

“Label or stencil the necessary emergency telephone number(s) or pager number(s) of persons to be contacted in case of a spill or leak that is beyond the training and equipment available on or near each spill kit locker/container:”

“Stencil the following warning *PROMINENTLY* on each spill kit locker/container:”

**“WARNING: NEVER HOSE DOWN A SPILL!
CLEAN IT UP PROMPTLY AND DISPOSE OF THE WASTE PROPERLY.”**

SWPPSRP SECTION X. – EMPLOYEE TRAINING LOG

Text:

“Identify the spill response training provided to each employee who is charged with responsibility for spill response:”

Table Categories:

Employee (print name)	Instructor (print name)	Date of Training
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